

2. Additional Notes on the Birds of Hainan.*
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The Natural History Museum has recently received a small collection of birds from the Five- and Seven-Finger Ranges, Central Hainan, procured by Mr. Robert Douglas, I.M.C., Shanghai. It was forwarded in the first instance as a present to the Zoological Society of London, but thanks to the good offices of the Secretary was transferred to the Natural History Museum. It contains several species of great interest, and among these examples of a new species of Wood-Shrike (*Tephrodornis hainanus*), and a new species of Ant-Thrush (*Pitta douglasi*) as well as a Bulbul (*Pycnonotus sinensis*), not hitherto found in Hainan.

In my article on the Birds of Hainan published in 1900 ‡ 239 species were enumerated as inhabiting the island. Since that paper was published Mr. Walter Rothschild has received a large collection of birds from the island of Hainan made by Mr. Alan Owston's Japanese collectors and containing specimens of the beautiful Tree-Partridge (*Arboricola ardens*), hitherto known only from the type-specimen. Mr. Rothschild described the following species and subspecies (cf. Bull. B. O. C. xiv. pp. 7-9, 1903):—

Psittiparus gularis hainanus.
Serilophus lunulatus polionotus.
Stachyris guttata swinhoei.
Trochalopteron canorum owstoni.
Stachyridopsis ruficeps goodsoni.
Pomatorhinus tickelli hainanus.
Cissa katsumatæ.§

The first of these, the so-called *P. g. hainanus*, does not appear to be distinct from *Paradoxornis fokiensis* David, for, as will be seen below, the difference in size is not appreciable. The species, however, was not included in my former paper, so that the total number of species of birds now known to occur in Hainan amounts to 249.

The number given for each species is the same as that used in my paper on the Birds of Hainan; for the sake of brevity this is referred to as 'Ogilvie-Grant.'

5 a. *CISSA KATSUMATÆ* Rothsch.

Cissa katsumatæ Rothsch. Bull. B. O. C. xiv. p. 9 (1903).

a-c. ♂ ♀. Seven-Finger Mts. 11th-15th November.

In describing this species Mr. Rothschild has compared it with

* [The complete account of the new species described in this communication appears here, but since the names and preliminary diagnoses were published in the 'Abstract,' No. 81, 1910, these species are distinguished by the names being underlined.—EDITOR.]

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‡ Cf. Ogilvie-Grant, P. Z. S. 1900, pp. 457-504, pls. xxxiii. & xxxiv.

§ A full account of this collection has just appeared. Cf. Hartert, Nov. Zool. xvii. pp. 189-254, pls. v. & vi. (1910): he enumerates 281 species and subspecies as occurring in Hainan, and describes 14 as new.

C. chinensis, but it is much more closely allied to *C. jefferyi* Sharpe, from Borneo, and to *C. robinsoni* Ogilvie-Grant, from the Malay Peninsula.

6. DENDROCITTA SINENSIS (Lath.).

Ogilvie-Grant, p. 463.

a. ♂. Five-Finger Mts. 9th November.

b. ♀. Seven-Finger Mts. 15th November.

Hainan examples of this Magpie appear to be somewhat smaller than Chinese birds. In six specimens the wing measures less than 5 inches, but in a seventh (a male) it attains a length of 5.4 inches. Three specimens have the middle pair of tail-feathers black to the base, and three show traces of grey, while in the seventh the *basal half* of the feathers is grey, as in the Formosan species, *D. formosæ* Swinhoe. Chinese examples may generally be distinguished from Hainan birds by their purer white upper tail-coverts, but these characters seem too variable to warrant the separation of the Hainan birds from typical *D. sinensis*. In certain respects they are intermediate between the Chinese and Formosan forms, the latter being always characterized by their greyer upper tail-coverts and the grey basal half of the middle pair of tail-feathers. Dr. Hartert has separated this bird as a subspecies under the name *D. s. insulæ*.

8. ACRIDOTHERES CRISTATELLUS (Gmel.).

Ogilvie-Grant, p. 463.

a, b. ♂ ♀. Seven-Finger Mts. 16th November.

Examples of this Starling from Hainan appear on the whole to be somewhat smaller than those from China, and have perhaps rather less white on the basal half of the primary quills. In six Hainan examples the wing-measurement varies from 4.8 to 5 inches, while in a seventh specimen it measures 5.25 inches. Dr. Hartert regards this bird as distinct and has named it *A. c. brevipennis*.

10. SPODIOPSAR SERICEUS (Gmel.).

Ogilvie-Grant, p. 463.

a. ♀. Five-Finger Mts. 9th November.

11. TEMNURUS NIGER (Styan).

Ogilvie-Grant, p. 464.

a, b. ♂ ♀. Seven-Finger Mts. 11th & 13th November.

A fine adult pair of this rare species.

12. MAINATUS INTERMEDIUS (A. Hay).

Ogilvie-Grant, p. 464.

a, b. ♂ ♀. Seven-Finger Mts. 11th & 16th November.

13. CHAPTIA ÆNEA (Vieill.).

Ogilvie-Grant, p. 464.

a, b. ♂ ♀. Five-Finger Mts. 9th November.

14. BUCHANGA LEUCOGENYS Wald.

Ogilvie-Grant, p. 464.

a, b. ♂ ♀. Seven-Finger Mts. 14th & 16th November.

17. DISSEMURUS PARADISEUS (Linn.).

Ogilvie-Grant, p. 465.

Dissemurus paradiseus johni Hartert, Nov. Zool. ix. p. 580 (1902).*a.* ♂. Seven-Finger Mts. 13th November.

19. ORIOLUS NIGELLICAUDUS (Swinh.).

Ogilvie-Grant, p. 465.

a, b. ♂ ♀ imm. Seven-Finger Mts. 13th & 14th November.

An immature male and female have the middle pair of tail-feathers and the outer webs of all the remaining pairs crimson washed with blackish. The only adult male which I have been able to examine is Swinhoe's type-specimen. It would be interesting to know whether the blackish wash on the tail-feathers of this example is a constant character. In other respects it does not differ from the adult male of *O. ardens* Swinh.

23. EMBERIZA FUCATA Pall.

Ogilvie-Grant, p. 466.

a. ♀. Seven-Finger Mts. 13th November.

24. EMBERIZA SPODOCEPHALA Pall.

Ogilvie-Grant, p. 466.

a. ♂. Seven-Finger Mts. 14th November.

25. EMBERIZA AUREOLA Pall.

Ogilvie-Grant, p. 466.

a. ♀. Seven-Finger Mts. 15th November.

28. MOTACILLA LEUCOPSIS Gould.

Ogilvie-Grant, p. 467.

a, b. ♂ ♀. Seven-Finger Mts. 15th & 17th November.

29. MOTACILLA MELANOPE Pall.

Ogilvie-Grant, p. 467.

a, b. ♂ ♀. Seven-Finger Mts. 15th November.

33. ANTHUS RICHARDI Vieill.

Ogilvie-Grant, p. 467.

a. ♀. Seven-Finger Mts. 14th November.

42. LANIUS SCHACH Linn.

Ogilvie-Grant, p. 469.

a. Adult. Seven-Finger Mts. 13th November.

44. LANIUS FUSCATUS Less.

Ogilvie-Grant, p. 470.

a. ♀. Seven-Finger Mts. 15th November.

46. TEPHRODORNIS HAINANUS Ogilvie-Grant.

Tephrodornis pelvica Ogilvie-Grant (*nec* Hodgs.), P. Z. S. 1900, p. 470.

Tephrodornis hainanus Ogilvie-Grant, Abstract P. Z. S. No. 81, p. 18 (March 22nd, 1910).

Adult male. Differs from Indian examples of *T. pelvica* Hodgs. in having the mantle and back much darker and of a reddish-brown colour.

Adult female. Darker and browner above than the female of *T. pelvica* Hodgs.

a-d. ♂ ♀. Seven-Finger Mts. 15th-18th November. (*Types of the species.*)

Hab. Hainan and China.

Specimens from Hainan appear to be slightly smaller than those from China.

The measurements are as follows:—

	Wing of male.	Wing of female.
China	4·8 ins.	4·7 ins.
Hainan	4·5	4·45

An immature male from Dibrughur, Assam, 14th August (*J. R. Cripps: Hume Coll.*) and an adult female from the Dafla Hills, 11th December (*Col. H. H. Godwin-Austen*), appear to be referable to the Chinese form *T. ricketti* and not to *T. pelvica*.

50. LUSCINIOLA FUSCATA Blyth.

Ogilvie-Grant, p. 471.

a. Adult. Seven-Finger Mts. 13th November.

52. CETTIA CANTURIENS Swinh.

Ogilvie-Grant, p. 471.

a-c. ♂ ♀. Seven-Finger Mts. 13th-16th November.

59. TURDUS CARDIS Temm.

Ogilvie-Grant, p. 472.

a. [♀]. Seven-Finger Mts. 15th November.

61. TURDUS MANDARINUS Bonap.

Ogilvie-Grant, p. 472.

a. ♂. Seven-Finger Mts. 13th November.

68. ERITHACUS SIBILANS Swinh.

Ogilvie-Grant, p. 474.

a. Adult. Seven-Finger Mts. 11th November.

70. COPSYCHUS SAULARIS (Linn.).

Ogilvie-Grant, p. 474.

a, b. ♂ ♀. Seven-Finger Mts. 12th & 13th November.

71. *CITTOCINCLA MINOR* Swinh.

Ogilvie-Grant, p. 474.

a, b. ♂ et ♀ imm. Seven-Finger Mts. 11th November.72. *HENICURUS SINENSIS* Gould.

Ogilvie-Grant, p. 474.

a, b. ♂ ♀. Seven-Finger Mts. 14th November.74. *GARRULAX SEMITORQUATA* Ogilvie-Grant.

Ogilvie-Grant, p. 475.

a. ♂. Seven-Finger Mts. 15th November.75. *GARRULAX SCHMACKERI* Hartl.

Ogilvie-Grant, p. 475.

a-d. ♂ ♀. Seven-Finger Mts. 12th-15th November.77. *DRYONASTES MONACHUS* Swinh.

Ogilvie-Grant, p. 476.

a, b. ♂ ♀. Seven-Finger Mts. 12th & 14th November.78 *a.* *POMATORHINUS HAINANUS* Rothsch.*Pomatorhinus tickelli hainanus* Rothsch. Bull. B. O. C. xiv. p. 9 (1903).*a.* ♂. Seven-Finger Mts. 11th November.82. *PYCNONOTUS HAINANUS* (Swinh.).

Ogilvie-Grant, p. 477.

a, b. ♂ ♀. Seven-Finger Mts. 12th & 16th November.82 *a.* *PYCNONOTUS SINENSIS* (Gmel.).*Pycnonotus sinensis* Ogilvie-Grant, Ibis, 1907, p. 189.*a.* ♂. Seven-Finger Mts. 11th November.

This species is new to the island of Hainan. The specimen has the hinder part of the crown and occiput white and is apparently referable to the Chinese and Formosan species. The amount of white on the hinder part of the head varies greatly in different individuals of *P. sinensis*, some Chinese examples approaching *P. hainanus*, which has the entire crown and occiput black.

84 *a.* *PARADOXORNIS FOKIENSIS* (David).*Psittiparus gularis hainanus* Rothschild, Bull. B. O. C. xiv. p. 7 (1903).*a-d.* ♂ ♀. Seven-Finger Mts. 13th-16th November.

Hainan specimens of *P. fokiensis* are on the average very slightly smaller than Chinese examples, and have been separated under the name *Psittiparus gularis hainanus*. The comparative measurements of Chinese and Hainan birds are as follows:—

	Wing.
14 specimens from Fohkien, China...	3·5-3·7 (one 3·8) inches.
4 specimens from Hainan	3·3-3·5

In typical *P. gularis* from the Himalaya, the upperparts are much paler and yellower.

85. *HYPSSIPETES PERNIGER* Swinh.

Ogilvie-Grant, p. 478.

a-d. ♂ ♀. Seven-Finger Mts. 12th-17th November.86. *CRINIGER PALLIDUS* Swinh.

Ogilvie-Grant, p. 478.

a. ♀. Seven-Finger Mts. 17th November.87. *CHLOROPSIS LAZULINA* (Swinh.).

Ogilvie-Grant, p. 478.

a, b. ♂ ♀. Seven-Finger Mts. 13th & 15th November.88. *CAMPOPHAGA SATURATA* (Swinh.).

Ogilvie-Grant, p. 478.

a-c. ♂ ♀. Seven-Finger Mts. 11th-15th November.89. *GRAUCALUS MACH* Lesson.

Ogilvie-Grant, p. 478.

a, b. ♂ ♀. Seven-Finger Mts. 12th November.91. *PERICROCOTUS FRATERCULUS* Swinh.

Ogilvie-Grant, p. 479.

a-c. ♂ ♀ et ♂ imm. Seven-Finger Mts. 11th & 12th November.102. *SIPHIA HAINANA* Ogilvie-Grant.

Ogilvie-Grant, p. 480.

a, b. ♀ et ♂ imm. Seven-Finger Mts. 13th November.107 *a.* *PITTA DOUGLASI* Ogilvie-Grant.

Abstract P. Z. S. No. 81, pp. 18, 19 (March 22nd, 1910).

Adult male.—Most nearly allied to *P. soror* Wardlaw Ramsay, from Cochin China, which it resembles in having the crown and occiput dull bluish-green like the back; lower back and rump bluish: fore-part of the head, cheeks, ear-coverts and lower part of the throat dull pink, chin inclining to whitish; lores, feathers surrounding the eye and on either side of the occiput rust-red; chest very similar, but tinged with pink; breast and rest of the underparts buff; lower part of the abdomen whitish; upper wing-coverts and scapulars greenish-blue like the mantle; quills brown margined on the outer web especially towards the extremity with pale brownish-buff, the five outer primaries white at the base of the inner web; tail greenish-blue like the back.

Total length ca. 8.0 inches; wing 4.45; tail 2.05; tarsus 2.0.

Adult female.—Differs from the male in being less brightly coloured; the top of the head, occiput and nape being olive-brown suffused with pink, and the rest of the upperparts, including the wing-coverts and scapulars, mostly dull olive-green;

the chest buff (instead of rust-red) tinged with pink, and the rest of the underparts paler buff.

Total length ca. 7.6 inches; wing 4.4; tail 1.9; tarsus 1.8.

a, b. ♂ ♀. Seven-Finger Mts. 11th November. (*Types of the species.*)

A second specimen of *P. soror* Wardlaw Ramsay, which was collected by Dr. J. J. Vassal in the neighbourhood of Nhatrang, Annam, like the type, has the feathers of the fore-neck and upper chest black tipped with buff or buff with a black median spot. I am uncertain whether this is a specific character or merely indicative of youth. No trace of these markings is to be found in the types of *P. douglasi*.

110. *DENDROCOPUS CABANISI* (Gould).

Ogilvie-Grant, p. 482.

a, b. ♂ ♀. Seven-Finger Mts. 12th November.

112. *IYNGIPICUS KALEENSIS* Swinh.

Ogilvie-Grant, p. 483.

Iyngipicus scintilliceps swinhoei Hartert, Nov. Zool. xvii. p. 221 (1910).

a. ♀. Seven-Finger Mts. 13th November.

113. *MICROPTERNUS HOLROYDI* Swinh.

Ogilvie-Grant, p. 483.

a, b. ♂ ♀. Seven-Finger Mts. 11th & 12th November.

Hargitt (Cat. Birds B.M. xviii. pp. 393, 403) says that Hainan birds differ from *M. fokiensis* not only in being smaller but in having the middles of the feathers of the chin and throat unicolorous with the underparts. In this he is no doubt mistaken, for in the freshly moulted pair procured by Mr. Douglas the feathers of the chin and throat are black edged with sandy-rufous just as in *M. fokiensis*. The specimens obtained by Swinhoe in February are all in worn plumage and at first sight appear to have the chin and throat uniform, but a careful examination reveals the fact that this is not really the case.

115. *PALÆORNIS FASCIATA* (Müll.).

Ogilvie-Grant, p. 484.

a, b. ♂ ♀. Seven-Finger Mts. 12th November.

120. *CENTROPUS SINENSIS* (Steph.).

Ogilvie-Grant, p. 485.

a, b. ♂ et imm. Seven-Finger Mts. 14th & 15th November.

121. *CENTROPUS BENGALENSIS* (Gmel.).

Ogilvie-Grant, p. 485.

a ♂ imm. Seven-Finger Mts. 15th November.

122. RHOPODYTES TRISTIS (Less.).
Ogilvie-Grant, p. 485.
a, b. ♂ ♀. Five-Finger Mts. 9th November.
c. Adult. Seven-Finger Mts. 13th November.
Dr. Hartert has distinguished Hainan examples of this species as *R. t. hainanus* [cf. Nov. Zool. xvii. p. 218 (1910)] on account of their slightly smaller size.
123. HARPACTES HAINANUS Ogilvie-Grant.
Ogilvie-Grant, p. 485.
a, b. ♂. Seven-Finger Mts. 14th November.
129. NYCTIORNIS ATHERTONI (Jard. & Selby).
Ogilvie-Grant, p. 486.
a, b. ♂ ♀. Seven-Finger Mts. 12th & 18th November.
130. UPUPA INDICA Reichenb.
Ogilvie-Grant, p. 487.
a, b. ♂ ♀. Seven-Finger Mts. 12th & 13th November.
138. EURYSTOMUS CALONYX Hodgs.
Ogilvie-Grant, p. 488.
a. ♂ imm. Five-Finger Mts. 9th November.
141. GLAUCIDIUM WHITELYI (Blyth).
Ogilvie-Grant, p. 488.
Glaucidium cuculoides persimile Hartert, Nov. Zool. xvii. p. 205 (1910).
a. ♀. Seven-Finger Mts. 14th November.
178. ARENARIA INTERPRES (Linn.).
Ogilvie-Grant, p. 494.
a. ♂. Seven-Finger Mts. 13th November.
222. TRERON NIPALENSIS (Hodgs.).
Ogilvie-Grant, p. 501.
a, b. ♂ ♀. Seven-Finger Mts. 12th November.
227. MACROPYGGIA MINOR Swinh.
Ogilvie-Grant, p. 502.
a. ♂. Seven-Finger Mts. 11th November.
230. TURTUR CHINENSIS (Scop.).
Ogilvie-Grant, p. 502.
Turtur chinensis hainanus Hartert, Nov. Zool. xvii. p. 195 (1910).
a, b. ♂ ♀. Seven-Finger Mts. 13th & 14th November.
231. CHALCOPHAPS INDICA (Linn.).
Ogilvie-Grant, p. 502.
a, b. ♂ ♀. Seven-Finger Mts. 15th & 16th November.